ABHINAY GEDELA

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in www.linkedin.com/in/ gedela-abhinay-65836628b   🔗 https://github.com/Abhii200   🐾 My portfolio

EXPERIENCE

Software Engineer Intern , Bluconn   **2025,JAN- PRESENT**
- Designed and developed a production-grade mock server to simulate WhatsApp Business API flows, enabling robust testing of enterprise messaging workflows before deployment.
- Engineered key business modules including:
- **Menu Management System** for interactive automated customer service flows
- **Leave Management** and **Overtime Tracking** with approval logic via conversational UI
- **Support Ticketing System** allowing users to send **text, voice, and image-based queries**, automatically routed to manager email inboxes for resolution
- **Expense Management** with end-to-end submission and approval workflows
- Implemented webhook listeners and real-time message processing to emulate authentic WhatsApp behavior.
- Developed RESTful APIs to support seamless integration of multiple business processes.
- Significantly reduced deployment risks by allowing pre-production validation of WhatsApp-based enterprise automations.

Software Engineer Intern , Bizcraft Advisors   **2024,MAY – 2024,DEC**
- Implemented automated UI tests using the **Playwright framework** with TypeScript, improving test coverage and reliability.
- Developed and executed comprehensive Jest tests for 15+ Express.js endpoints, ensuring robust backend functionality and data integrity, which significantly reduced production issues.
- Optimized AI-powered scripts using OpenAI and Azure Form Recognizer to automate data extraction from over 1,000 Form 16 tax documents, achieving 95% accuracy and reducing processing time by 80%.
- Developed a sophisticated Machine Learning model leveraging Large Language Models (LLMs) to **classify 60+ file categories by integrating textual and visual features**, utilized OpenAI's API to create high-quality text embeddings, Sentence Transformers and Hugging Face models for embeddings, and stored them efficiently in ChromaDB while testing with Pinecone for performance evaluation; trained a logistic regression classifier on combined embeddings, achieving an accuracy of 87.5% in diverse file classification tasks.
- Developed and served as a tester for a **ledger prediction system** for invoices,bank statements and receipts leveraging OpenAI embeddings for high-quality feature extraction and ChromaDB for efficient storage and retrieval, ensuring accurate and scalable classification.

PROJECTS

MAGICAL DB 🔗 (**http://www.manjarilab.com/databases/magicaldb/index.php**)
- Developed a dynamic website for Hyderabad Central University to explore gene interactions.
- Used the MAGICAL DB platform to enhance data access and analysis, reducing research time by 50%.
- Optimized database performance and implemented essential backend features.
- Visualized and analyzed large datasets using Cytoscape, aiding in valuable insights and informed decision-making.

BhimavaramOpen (Tennis Tournament) 🔗 (**https://www.bhimavaramtennis.com/**)
- Architected and managed database schema for player, match, tournament schedule, and result information storage.
- Implemented a comprehensive player profile management system, facilitating personal detail modification, photo uploads, and match stats tracking.
- Conducted rigorous unit tests and comprehensive testing to debug backend code and ensure seamless cross-browser and cross-device functionality.

virtualMouse 🔗 **(https://github.com/Abhii200/Virtual-Mouse)**
Computer Vision-based Desktop Application | Python, OpenCV, MediaPipe, PyAutoGUI
- Developed a real-time virtual mouse using webcam input and hand gesture recognition for hands-free computer control.
- Implemented smooth cursor tracking with coordinate mapping and smoothing algorithms, and gesture-based click detection via thumb–index finger distance with adjustable sensitivity.
- Integrated PyAutoGUI for cross-platform automation with boundary constraints and fail-safe mechanisms.
- Added a desktop shortcut for easy and quick access to the application.

EDUCATION

Bachelor of Degree : Computer Science & Design , SRKR Engineering College	2022 – 2026
Intermediate: Adithya Junior College	2020 – 2022

SKILLS

Programming Languages: C,Java,Python

Web Development: HTML, CSS, JavaScript, PHP, Node.js, MySQL, MongoDB, PostgreSQL

Frameworks & Libraries: FastAPI, Playwright, React.js, Express.js, TensorFlow, PyTorch, Scikit-learn

Natural Language Processing: OpenAI GPT, Hugging Face Transformers

Tools & Platforms: Git, Docker, VS Code, Jupyter Notebook,Google Colab, Blender, 3D Maya, ChatGPT, Claude, Mistral

CERTIFICATES

- Html , Css , JavaScript
- Java and Python
- Postman API
- NIT Startup Expo